## IAP7 Rec'd PCT/PTO 21 JUL 2006

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL LETTER TO THE UNITED STATES			011765-0325709			
DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371			U.S. APPLICATION NO. (If known, see 37 CFR 1.5)			
			10/567,378			
	TONAL APPLICATION NO. PCT/GB2004/0038	INTERNATIONAL FILING DATE 07 September 2004 (7.09.2004)	PRIORITY DATE CLAIMED 08 September 2003 (8.09.2003)			
TITLE OF	TITLE OF INVENTION TEMPERATURE CONTROL DEVICE, DISK DRIVE UNIT TEST APPARATUS, AND A METHOD OF TESTING OR OPERATING A PLURALITY OF DISK DRIVE UNITS					
		WILLIAM ATKINS et al.				
Applicant	herewith submits to the United Stat	es Designated/Elected Office (DO/EC	/US) the following items and other information:			
1. 🔲	This is a FIRST submission of items con	cerning a submission under 35 U.S.C. 371				
2. 🗓 1	his is a SECOND or SUBSEQUENT su	bmission of items concerning a submission	n under 35 U.S.C. 371.			
	his is an express request to begin nation (5), (6), (9) and (21) indicated below.	nal examination procedures (35 U.S.C. 37	1(f)). The submission must include items			
4.	The US has been elected (Article 31).					
5.	A copy of the International Application	as filed (35 U.S.C. 371(c)(2))				
	a. is attached hereto (required o	only if not communicated by the Internation	al Bureau).			
	b. has been communicated by the International Bureau.					
, <u>-</u>	c. is not required, as the application	ation was filed in the United States Receivi	ng Office (RO/US).			
6		International Application as filed (35 U.S.C	c. 371(e)(2)).			
	a. is attached hereto.					
	b.  has been previously submitte	ed under 35 U.S.C. 154(d)(4).				
7. 📖	Amendments to the claims of the Interr	national Application under PCT Article 19 (	35 U.S.C. 371(c)(3))			
	a. are attached hereto (require	d only if not communicated by the Internal	ional Bureau).			
	b. have been communicated b	y the International Bureau.				
	c. have not been made; however	ver, the time limit for making such amendm	nents has NOT expired.			
	d. have not been made and wi	ll not be made.				
8.		amendments to the claims under PCT Art	icle 19 (35 U.S.C. 371(c)(3)).			
9. X	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).					
10	An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).					
ltems 11 to 20 below concern document(s) or information included:						
11. 🔲	An Information Disclosure Statement u	nder 37 CFR 1.97 and 1.98.				
12. X	An assignment document for recording	. A separate cover sheet in compliance wit	th 37 CFR 3.28 and 3.31 is included.			
13.	A preliminary amendment.					
14.	An Application Data Sheet under 37 CFR 1.76.					
15. 🔲	A substitute specification.					
16. 🔲	A power of attorney and/or change of address letter.					
17. 🔲	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.					
18.	A second copy of the published International Application under 35 U.S.C. 154(d)(4).					
19.	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).					

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +	U.S. APPLICAT	10/567,378	, see 37 CFR 1.5)	PCT/GB20		011765-03	
21.	20. Other	items or information	on:				
21.							
22. Examination fee (37 CFR 1.492(c))  If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)	The folio	owing fees have b	een submitted	<del></del>		CALCULATIONS	PTO USE ONLY
If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)	21. 🗌 Basid	c national fee (37	CFR 1.492(a))		\$300	\$	
by IPEAUS indicates all claims satisfy provisions of PCT Article 33(1)-(4)	22.	ination fee (37 CF	FR 1.492(c))				
by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)	If the written opini	ion prepared by IS	SA/US or the inte	rnational preliminary examina	ition report prepared	\$	
23. Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates at Iclaims satisfy provisions of PCT Article 33(1)-(4)	by IPĖA/l	US indicates all cla	aims satisfy prov	risions of PCT Article 33(1)-(4)	) <b>\$0</b> `		
If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 3/(1)-(4)					3200		- 17.45
IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)				nal preliminary examination re	port prepared by		
International Searchin Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB.    TOTAL OF 21, 22 and 23 =						\$	
previously communicated to the US by the IB	Internatio	nal Searching Au	thority		\$100		
TOTAL OF 21, 22 and 23 = 0.00  Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.821(in) and 37 CFR 1.821(in) and 38 CFR 1	previously	communicated to	the US by the II	В	\$400		
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).  The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  Total Sheets  Extra Sheets  Number of each additional 50 or fraction thereof.  100 = 1/50 =	All other situation	S			\$500	0.00	
sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).  The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  Total Sheets  Extra Sheets  Number of each additional 50 or fraction thereof (round up to a whole number)  -100 =   /50 =   x\$250   \$ 0.00  Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).  CLAIMS  NUMBER FILED  NUMBER EXTRA  RATE  Total claims  -20 =   x \$50   \$ 130.00  MULTIPLE DEPENDENT CLAIM(S) (if applicable)   + \$360   \$ 130.00  MULTIPLE DEPENDENT CLAIM(S) (if applicable)   + \$360   \$ 130.00  Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.  0.000  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  TOTAL NATIONAL FEE   \$ 130.00  Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property   +   TOTAL FEES ENCLOSED   \$ 400.00  Amount to be   \$ 400.00				ed in paper over 100 sheets (e	excluding	0.00	
The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  Total Sheets	└─ sequence	e listing in complia	nce with 37 CFF				
thereof (round up to a whole number)  -100 =   1/50 =   x\$250   \$ 0.00  Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or dectaration after the date of commencement of the national stage (37 CFR 1.492(h)).  CLAIMS   NUMBER FILED   NUMBER EXTRA   RATE   \$  Total claims   -20 =   x\$50   \$  Independent claims   -3 =   x\$200   \$  MULTIPLE DEPENDENT CLAIM(S) (if applicable)   + \$360   \$  TOTAL OF ABOVE CALCUATIONS =   \$130.00    Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½. 0.00    Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(li)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property   + \$40.00    TOTAL FEES ENCLOSED = \$170.00   \$40.00				ts of paper or fraction thereof.			
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).  CLAIMS NUMBER FILED NUMBER EXTRA RATE  Total claims -20 =	Total Sheets	Extra Sheets			RATE		
after the date of commencement of the national stage (37 CFR 1.492(h)).  CLAIMS NUMBER FILED NUMBER EXTRA RATE  Total claims -20 =	- 100 =	/50 =			× \$250	\$ 0.00	
Total claims -20 =					e oath or declaration	\$ 130.00	
Independent claims  -3 =	CLAIMS	NUMB	ER FILED	NUMBER EXTRA	RATE	\$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)  TOTAL OF ABOVE CALCULATIONS = \$ 130.00  Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.  SUBTOTAL = \$ 130.00  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  TOTAL NATIONAL FEE = \$ 130.00  Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property	Total claims		- 20 =		x \$50	\$	
TOTAL OF ABOVE CALCULATIONS = \$ 130.00  Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.  SUBTOTAL = \$ 130.00  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  TOTAL NATIONAL FEE = \$ 130.00  Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  TOTAL FEES ENCLOSED = \$ 170.00  Amount to be refunded:  Amount to be	Independent clain	ns	- 3 =		x \$200	\$	
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.  SUBTOTAL = \$ 130.00  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  TOTAL NATIONAL FEE = \$ 130.00  Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + \$ 40.00  TOTAL FEES ENCLOSED = \$ 170.00  Amount to be refunded: \$ 40.00	MULTIPLE DEPE	NDENT CLAIM(S	(if applicable)			\$	
SUBTOTAL = \$ 130.00  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  TOTAL NATIONAL FEE = \$ 130.00  Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + \$ 40.00  TOTAL FEES ENCLOSED = \$ 170.00  Amount to be refunded: \$ 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Applicant dis	i II4:44	0 07 OF			150.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  TOTAL NATIONAL FEE = \$ 130.00  Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + TOTAL FEES ENCLOSED = \$ 170.00  Amount to be refunded: \$ Amount to be	Applicant clai	ins small entity st	alus. See 37 CF	R 1.27. Fees above are redu	<del></del>		
claimed priority date (37 CFR 1.492(i)). + \$ 0.00  TOTAL NATIONAL FEE = \$ 130.00  Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + \$ 40.00  TOTAL FEES ENCLOSED = \$ 170.00  Amount to be refunded: \$ Amount to be	Processing fee of	\$130.00 for furnis	shing the English	translation later than 30 mon		\$ 130.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + \$40.00 per property + \$170.00 per prop				Translation later than 55 men		\$	0.00
by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + \$40.00 TOTAL FEES ENCLOSED = \$ 170.00 Amount to be refunded: Amount to be \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$				TOTA	L NATIONAL FEE =	\$	130.00
Amount to be refunded: \$  Amount to be \$  Amount to be \$					•	\$	40.00
Amount to be refunded: \$ Amount to be \$ Amount to be \$				TOTAL F	EES ENCLOSED =	\$	170.00
I						refunded:	\$
							\$

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	As account the phase face is applicated				
a. A check in the amount of \$					
b. $X$ Please charge my Deposit Account No. $03397$ A duplicate copy of this sheet is enclosed.	$\frac{75}{100}$ in the amount of \$ $\frac{170.00}{1000}$ to cover the above fees.				
c. X The Commissioner is hereby authorized to charge Account No. 033975 . A duplicate copy of this	any additional fees which may be required, or credit any overpayment to Deposit is sheet is enclosed.				
d. Fees are to be charged to a credit card. WARNING be included on this form. Provide credit card info	G: Information on this form may become public. Credit card Information should not promation and authorization on PTO-2038.				
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO: Christine H McCarthy 1650 Tysons Boulevard McLean, VA 22102-4856	SIGNATURE Christine H McCarthy NAME				
US	A1844 REGISTRATION NUMBER				

07/26/2006 MKAYPAGH 00000148 033975 10567378

01 FC:1617

130.00 DA



### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

U.S. APPLICATION NUMBER NO. FIRST NAMED APPLICANT ATTY. DOCKET NO.

10/567,378 Andrew William Atkins

0117650325709

INTERNATIONAL APPLICATION NO.

PCT/GB04/03802

I.A. FILING DATE

PRIORITY DATE

09/07/2004

09/08/2003

00909 PILLSBURY WINTHROP SHAW PITTMAN, LLP P.O. BOX 10500 MCLEAN, VA 22102

CONFIRMATION NO. 9656
371 FORMALITIES LETTER

\*OC000000018906673\*

Date Mailed: 05/23/2006

# NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 02/07/2006
- Copy of the International Search Report filed on 02/07/2006
- Preliminary Amendments filed on 02/07/2006
- Information Disclosure Statements filed on 02/07/2006
- Copy of references cited in ISR filed on 02/07/2006
- U.S. Basic National Fees filed on 02/07/2006
- Priority Documents filed on 02/07/2006

The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath
  or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the
  missing items identified in this letter.

#### SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity:

\$130 Surcharge.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice **MUST** be returned with the response.

MAMIE P PERSON

Telephone: (703) 308-9140 EXT 227

### PART 1 - ATTORNEY/APPLICANT COPY

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Γ	U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
	10/567,378	PCT/GB04/03802	0117650325709

FORM PCT/DO/EO/905 (371 Formalities Notice)